

1. A modified anti-viral peptide comprising:

a peptide that exhibits anti-viral activity, and

a reactive group which is reactive with amino groups, hydroxyl groups, or thiol groups on blood components to form stable covalent bonds.

2. The modified peptide of claim 1 wherein said reactive group is a succinimidal or a maleimido group.

3. The modified peptide of claim 1 wherein said reactive group is a maleimido group which is reactive with a thiol group on a blood protein.

4. The modified peptide of claim 1 wherein said peptide is DP178 or DP107 or analogs thereof.

5. The modified peptide of claim 1 wherein said peptide exhibits antiviral activity against human impunodeficiency virus (HIV).

6. The modified peptide of claim 5 wherein said peptide is selected from the group consisting of SEQ ID NO:1 to SEQ ID NO:9.

7. The modified peptide of claim 5 wherein said peptide is DP 178 or DP 107.

8. The modified peptide of claim 1 wherein said peptide exhibits antiviral activity against human respiratory syncytial virus (RSV).

9. The modified peptide of claim 8 wherein said peptide is selected from the group consisting of SEO/ID NO:10 to SEQ ID NO:30.

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10. The modified peptide of claim 8 wherein said peptide is selected from the group consisting of SEQ ID NO:14 to SEQ ID NO:17 and SEQ ID NO:29.

11. The modified peptide of claim 1 wherein said peptide exhibits antiviral activity against human parainfluenza virus (HPIV).

- 12. The modified peptide of claim 11 wherein said peptide is selected from the group consisting of SEQ ID NO:31 to SEQ ID NO:62.
  - 13. The modified peptide of claim 11 wherein said peptide is selected from the group consisting of SEQ ID NO: 35, SEQ ID NO:38 to SEQ ID NO:42, SEQ ID NO:52 and SEQ ID NO:58.

14. The modified peptide of claim 1 wherein said peptide exhibits antiviral activity against measles virus (MeV).

- 15. The modified peptide of claim 14 wherein said peptide is selected from the group consisting of SEQ ID NO:74 to SEQ ID NO:86.
  - 16. The modified peptide of claim 14 wherein said peptide is selected from the group consisting of SEQ ID NO:77, SEQ ID NO:79, SEQ ID NO:81 and SEQ ID NO:84.
  - 17. The modified peptide of claim 1 wherein said peptide exhibits antiviral activity against simian/immunodeficiency virus (SIV).
- 18. The modified peptide of claim 17 wherein said peptide is selected from the group consisting of SEQ ID NO:63 to SEQ ID NO:73.

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- 19. A composition for use in the prevention and/or treatment of acquired immune deficiency syndrome (AIDS) comprising a peptide that exhibits anti-viral activity against human immunodeficiency virus (HIV), modified with a reactive group which is reactive with amino groups, hydroxyl groups, or thiol groups on blood components to form stable covalent bonds.
- 20. The composition of claim 19 wherein said reactive group is a maleimido group which is reactive with a thiol group on a blood protein.
- 21. The composition of claim 20 wherein said peptide is DP178 or DP107 or analogs thereof.
- 22. A composition for use in the prevention and/or treatment of human respiratory syncytial virus (RSV) infection comprising a peptide that exhibits antiviral activity against RSV, modified with a reactive group which is reactive with amino groups, hydroxyl groups, or thiol groups on blood components to form stable covalent bonds.
- 23. The composition of claim 22 wherein said reactive group is a maleimido group which is reactive with a thiol group on a blood protein.
  - 24. The composition of claim 23 wherein said peptide is selected from the group consisting of SEQ ID NO:14 to SEQ ID NO:17 and SEQ ID NO:29.
  - 25. A composition for use in the prevention and/or treatment of human parainfluenza virus (HPIV) infection comprising a peptide that exhibits anti-viral activity against human parainfluenza (HPIV), modified with a reactive group which is reactive with amino groups, hydroxyl groups, or thiol groups on blood components to form stable covalent bonds.

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- 26. The composition of claim 25 wherein said reactive group is a maleimido group which is reactive with a thiol group on a blood protein.
- 27. The composition of claim 26 wherein said peptide is selected from the group consisting of SEQ ID NO: 35, SEQ ID NO:38 to SEQ ID NO:42, SEQ ID NO:52 and SEQ ID NO:58.
- 28. A composition for use in the prevention and/or treatment of measles virus (MeV) infection comprising a peptide that exhibits anti-viral activity against measles virus (MeV), modified with a reactive group which is reactive with amino groups, hydroxyl groups, or thiol groups on blood components to form stable covalent bonds.
  - 29. The composition of claim 28 wherein said reactive group is a maleimido group which is reactive with a thiol group on a blood protein.
  - 30. The composition of claim 29 wherein said peptide is selected from the group consisting of SEQ ID NO:77, SEQ ID NO:79, SEQ ID NO:81 and SEQ ID NO:84.

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